

43



FIG. 1A



FIG. 1B

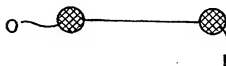


FIG. 1C

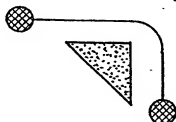


FIG. 1D

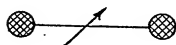


FIG. 1E

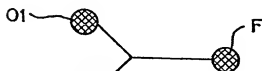


FIG. 1F

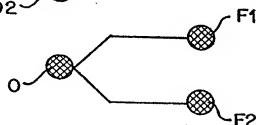


FIG. 1G

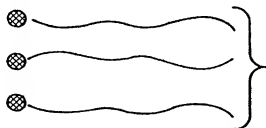


FIG. 1H

10095504, 082502



01/20593

2/36

PCT/US00/25466

FIG. 2A

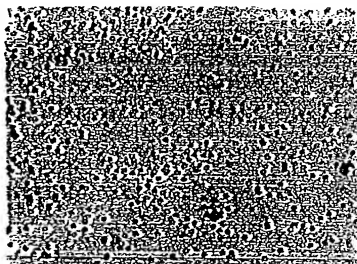
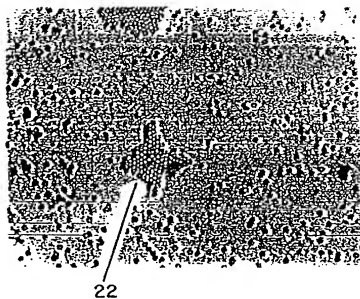


FIG. 2B



22

10098504, 082502



WO 01/20593

3/36

PCT/US00/25466

FIG. 2C

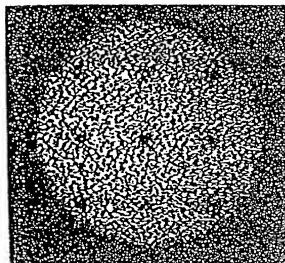
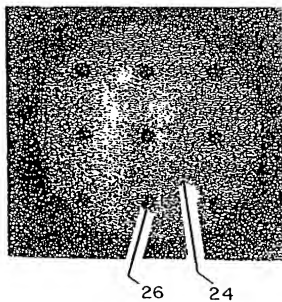


FIG. 2D





WO 01/20593

4/36

PCT/US00/25466

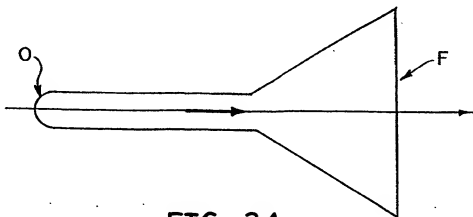


FIG. 3A

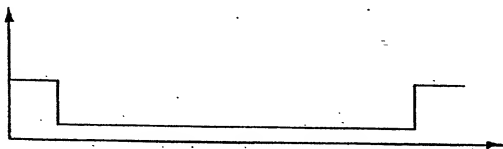
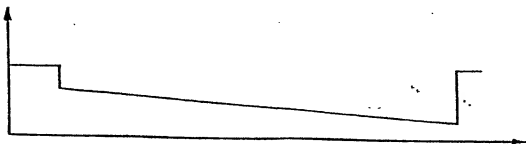
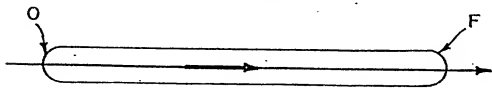


FIG. 3B



10098504, 082602



WO 01/20593

5/36

PCT/US00/25466

FIG. 3C

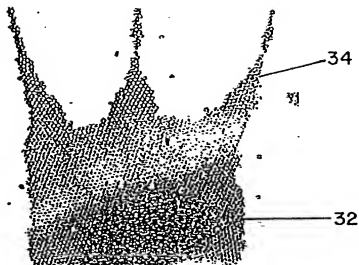
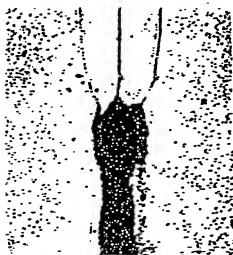


FIG. 3D



1008604.002502



FIG. 4A

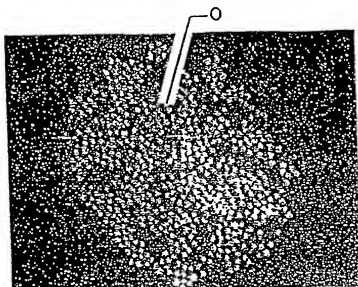
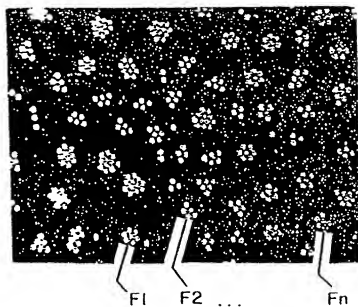


FIG. 4B



1098604,092602



FIG. 5

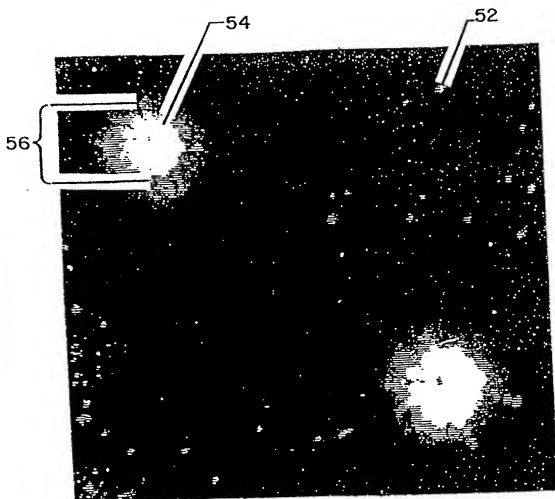


FIG. 7

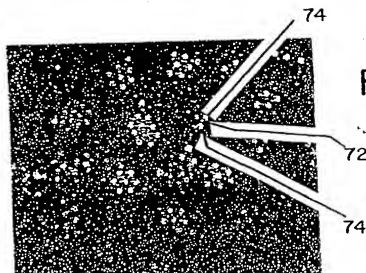


FIG. 6A

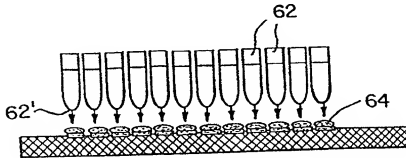


FIG. 6B



FIG. 6C

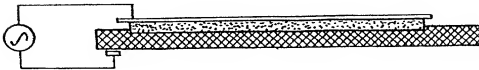
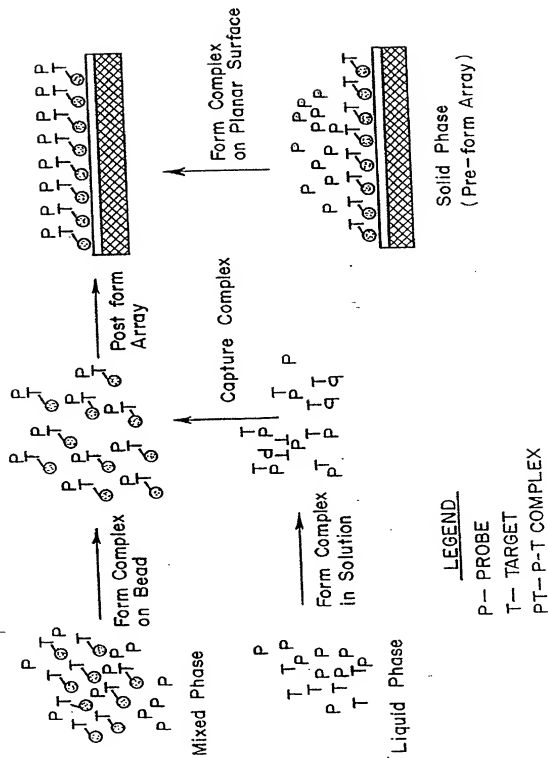


FIG. 8



202801/0000001

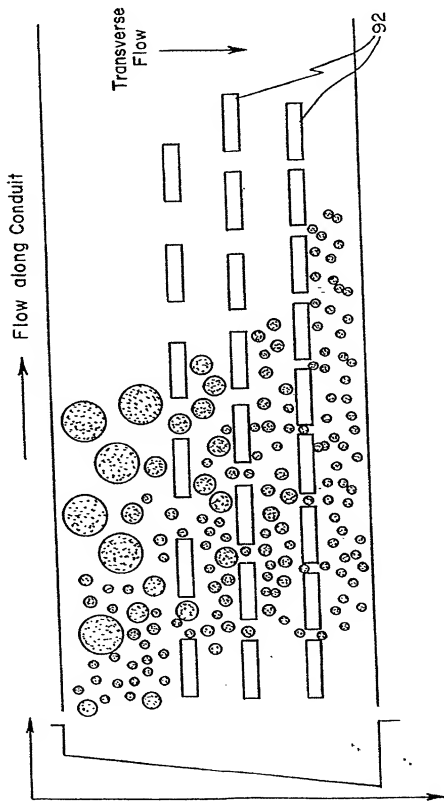


01/20593

10/36

PCT/US00/25466

FIG. 9A





01/20593

11/36

PCT/US00/25466

FIG. 9B

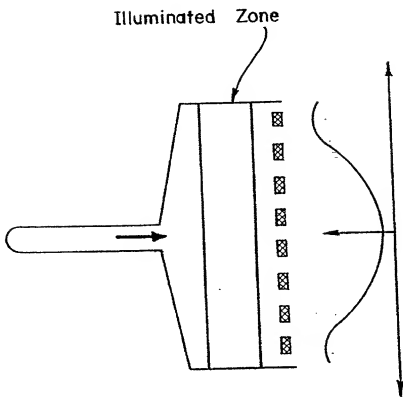


FIG. 9C



FIG. 11A

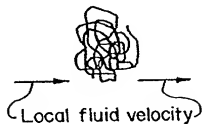


FIG. 11B



FIG. 11C

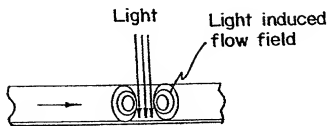


FIG. 11D

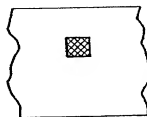
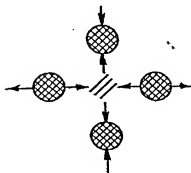


FIG. 11E



10098504, 10098502

205280*H086000

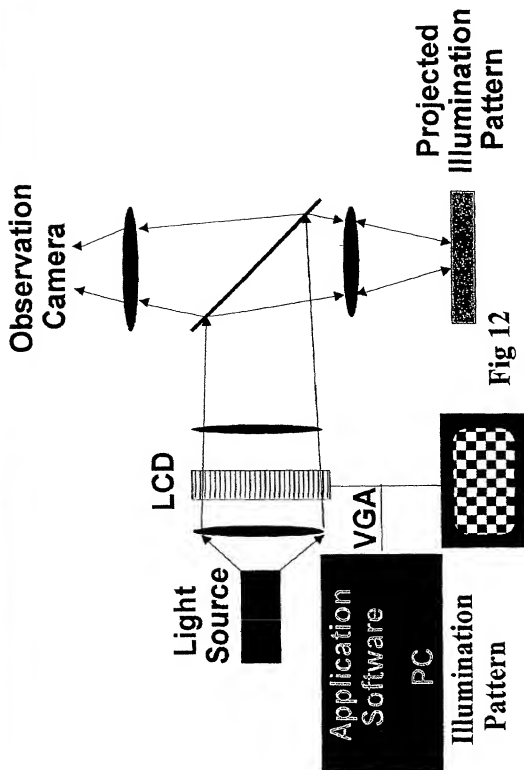


ILLUMINATION PATTERN GENERATOR

WO 01/20593

14/36

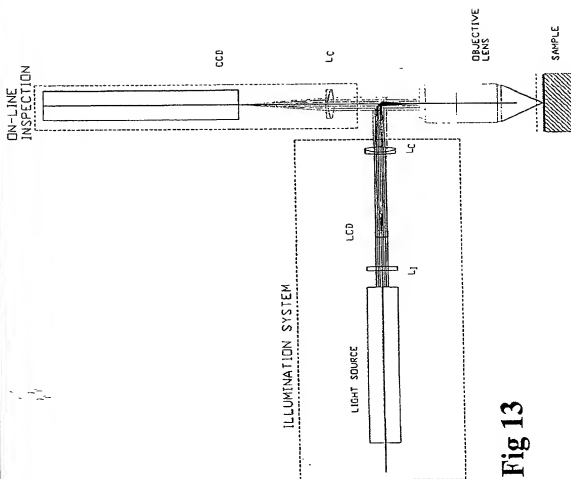
PCT/US00/25466



2002071058601



LCD-PARSE OPTICAL DESIGN



ARRAY SHAPE ADJUSTMENTS

WO 01/20593

16/36

PCT/US00/25466

CIRCLE

HORIZONTAL LINE

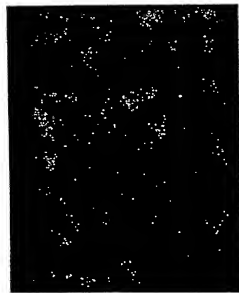


FIG. 14C

VERTICAL LINE

SQUARE



FIG. 14D

FIG. 14A

FIG. 14B



205200/4096001



COLLECTION AND ARRAY ASSEMBLY

01/20593

17/36

PCT/US00/25466

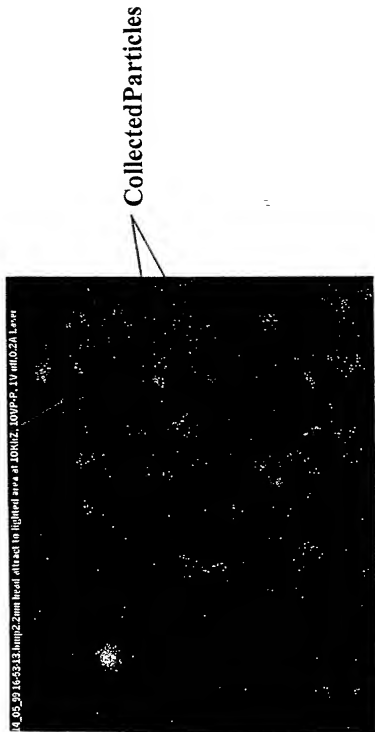


FIG. 15A

205260/40366001



EXPULSION AND CONFINEMENT



11

04_05_39 16-54-05 Imp 2.2um In-ell Rejected from lighted area at 100kZ_101VP-P_1V oil 0.25 A Laser



Confined Particles

Illuminated Regions

"Ghost" Image

FIG. 15B

ROSENTHAL & WILSON



DRAG AND DROP

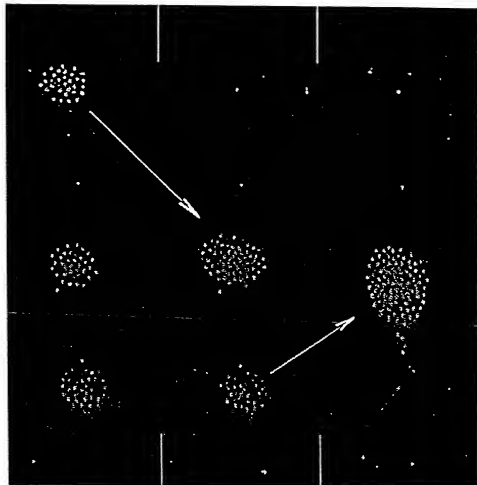


Figure 16

Programmable Array Reconfiguration and Segmentation

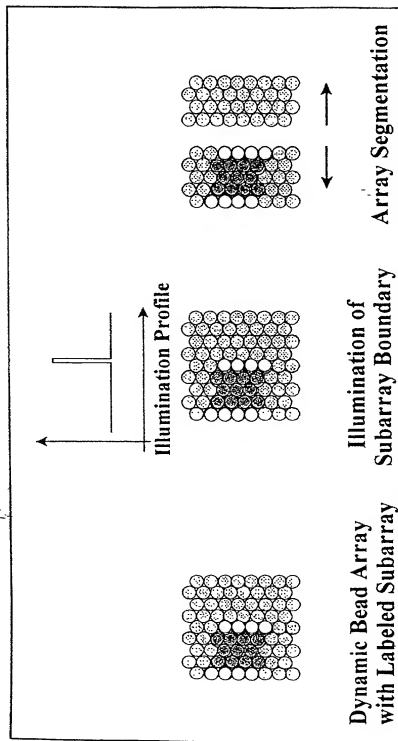


Figure 17

2092807-1096607



LCD PARSE



FIG. 18A

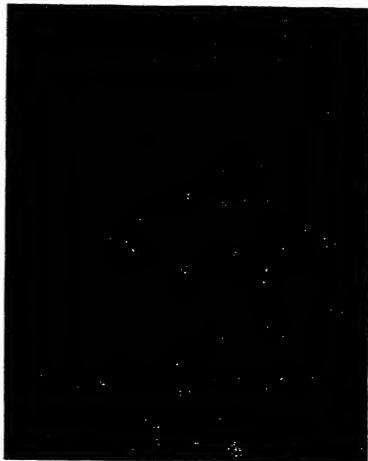


FIG. 18B

2052601 40586001

LCD PARSE

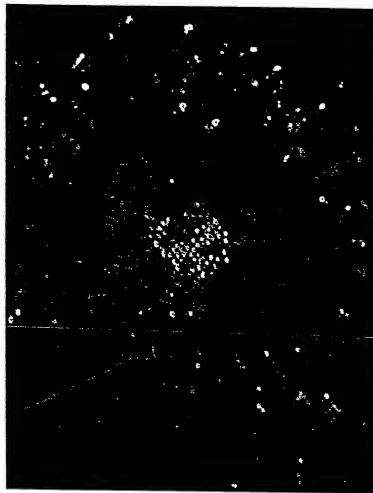


Figure 19

FRACTIONATION

Differential Frequency Dependence of Particle Expulsion
(NOTE: ω_c denotes a characteristic frequency)

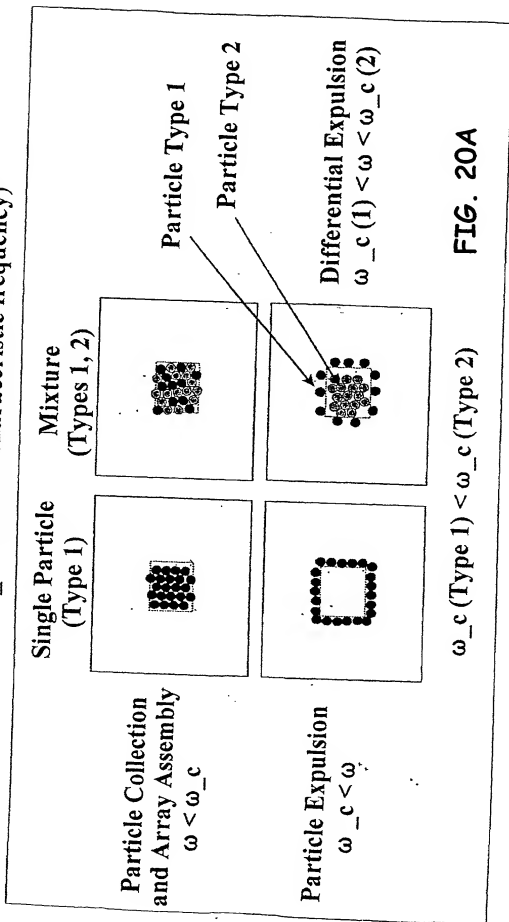


FIG. 20A

$\omega_c(\text{Type 1}) < \omega_c(\text{Type 2})$

FRACTIONATION

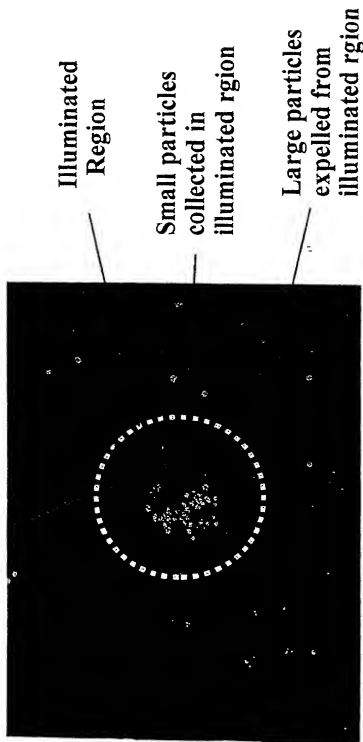


FIG. 20B

OIPE J.C.
AUG 26 2002
PATENT & TRADEMARK

WO 01/20593

25/36

PCT/US00/25466

FIG. 21A

LCD PARSE

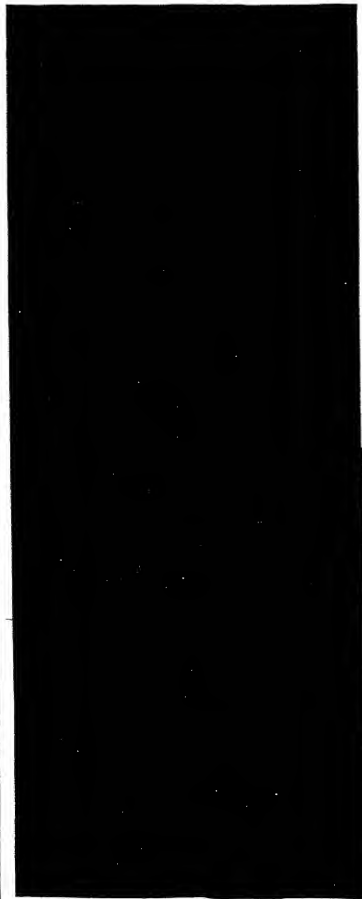
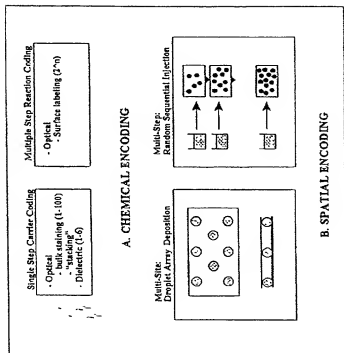


FIG. 21A

FIG. 21B

FIG. 22A



1 - Pre-Processing

2 - Post-Processing

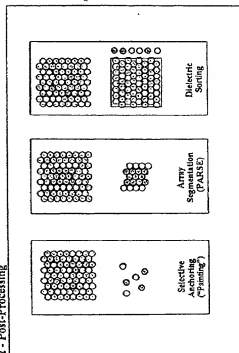


FIG. 22B

205280/10586001

Encoding Methodology



20220740986001

RANDOM SEQUENTIAL INJECTION



WO 01/20593

27/36

PCT/US00/25466

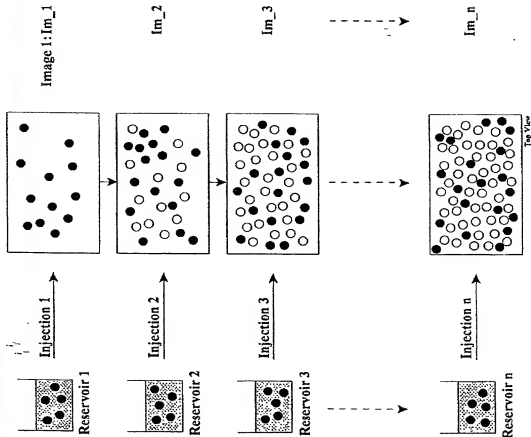


Figure 23

205260/60986001

SEQUENTIAL INJECTION & LIGHT-CONTROLLED ARRAY PLACEMENT



WO 01/20593

28/36

PCT/US00/25466

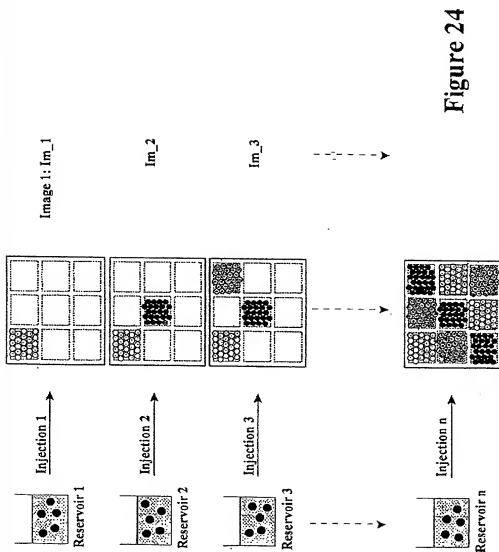


Figure 24

2052801 40986001



01/20593

29/36

PCT/US00/25466

MACRO-TO-MICRO TRANSITION

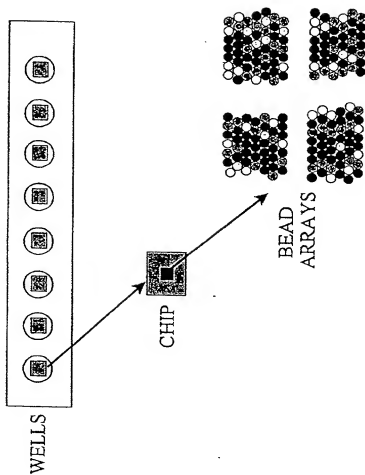


FIG. 25A

205280' 40566001

ARRAY ENCODING



WO 01/20593

30/36

PCT/US00/25466

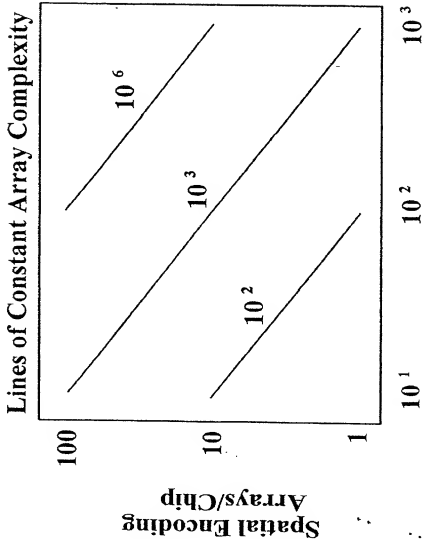


FIG. 25B

209280*40986001

ARRAY ENCODING

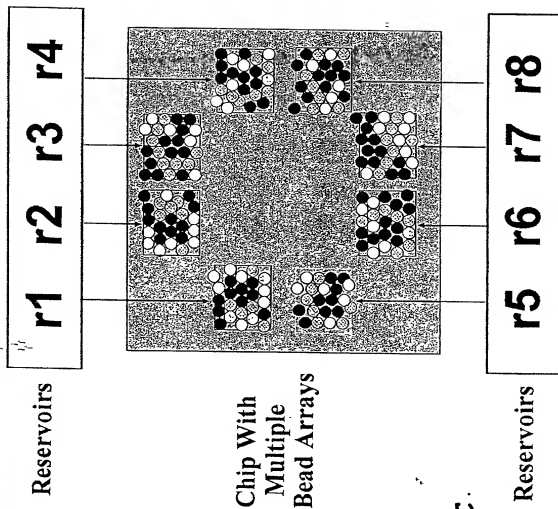


FIG. 25C.

205280 40586001



SEQUENTIAL ASSEMBLY: "BANDING"

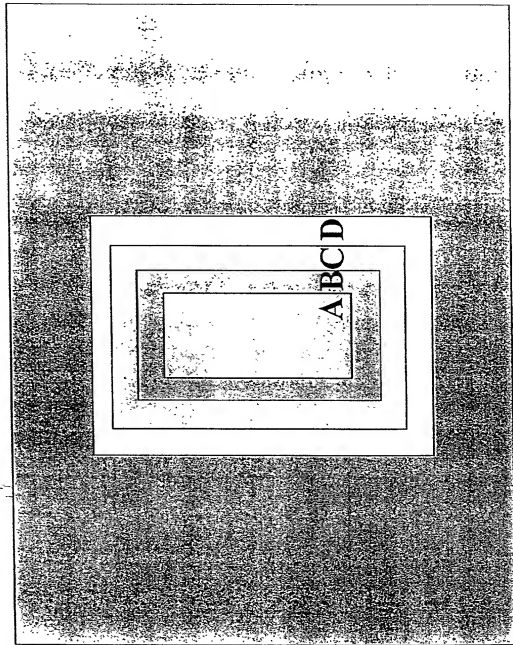


FIG. 26A

209280' 40986001

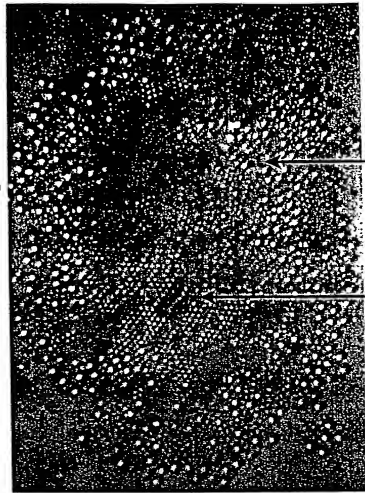
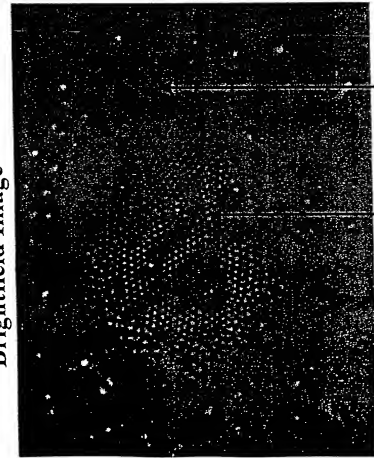


SEQUENTIAL ASSEMBLY: "BANDING"

Mixture of Two Particle Types

Brightfield Image

Darkfield Image



2.8 μm 5.5 μm

2.8 μm 5.5 μm

FIG. 26B



200201090001

LCD PARSE

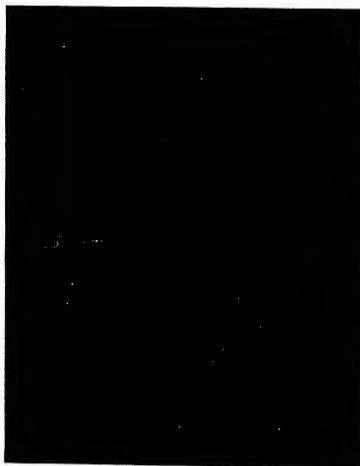


Figure 27



209260-40966001

ARRAY OF RANDOM SUBARRAYS

A UNIQUE TWO-DIMENSIONAL BAR CODE

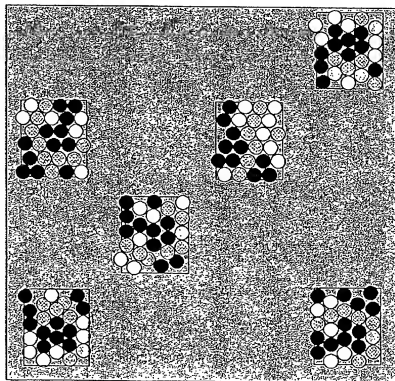


Figure 28

205280*40566001



LIGHT-INDUCED FLUID FLOW

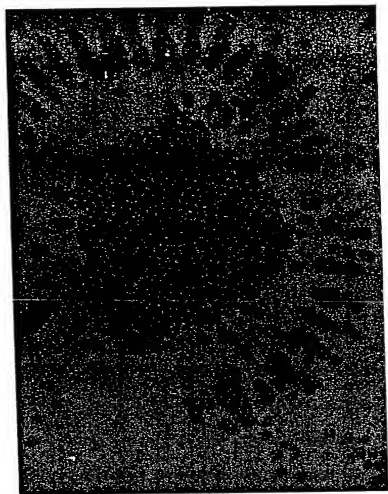


Figure 29